

Source Transformation

The transformation of a power source from a voltage source to a current source, or a current source to a voltage source.



Electric Power

Work done or electric energy (E) is the movement of charge (Q) caused by EMF

$E = V \times Q$

P is the rate at which electric energy (E) is transferred by an electric circuit

$P = \frac{E}{t} = \frac{VQ}{t} = V \times \frac{Q}{t} = V \times I$

1 electron = 1.6×10^{-19} coulombs

1 coulomb = 6,250,000,000,000,000,000 electrons

1 amp = 1 coulomb passing by in 1 second of time

Electrical power is measured in Watts (symbol: W)



$P = V I$ watts

$V = \frac{P}{I}$ volts

$I = \frac{P}{V}$ amps

IS TRANSFORM FROM A

Delta (Δ) to a Wye (Y)



$R_a = \frac{R_{12} R_{31}}{R_{12} + R_{23} + R_{31}}$

$R_b = \frac{R_{12} R_{23}}{R_{12} + R_{23} + R_{31}}$

$R_c = \frac{R_{23} R_{31}}{R_{12} + R_{23} + R_{31}}$

IS TRANSFORM FROM A

Wye (Y) to a Delta (Δ)

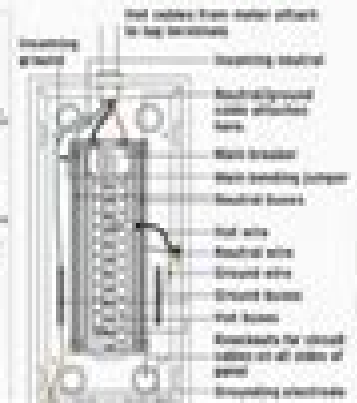
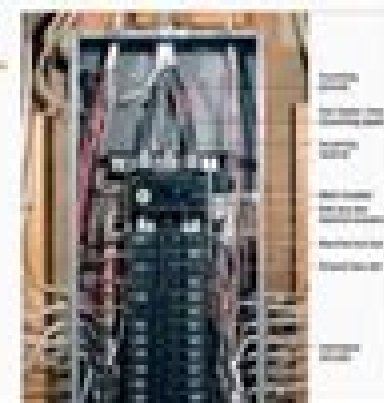
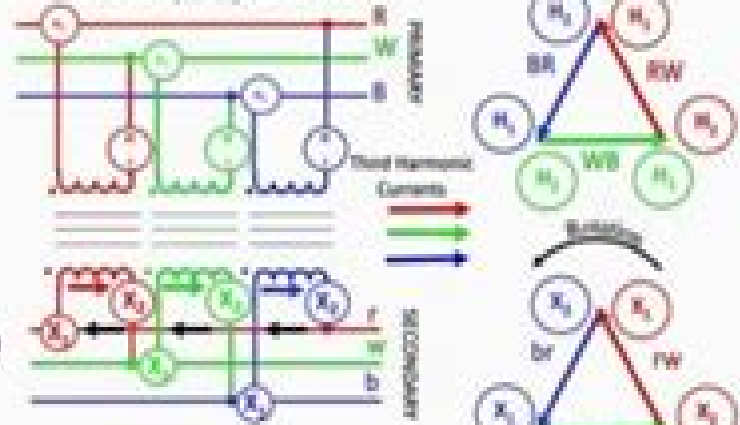


$R_{12} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_c}$

$R_{23} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_b}$

$R_{31} = \frac{R_a R_b + R_b R_c + R_c R_a}{R_a}$

Delta - Delta ($\Delta-\Delta$) Connected



TRANSFORMER CONNECTIONS

Star - Star ($Y-Y$)



The Primary Voltage Relationship

$V_{p1} = \sqrt{3} V_{p2} \angle 30^\circ$

$V_{p2} = \frac{V_{p1}}{\sqrt{3}} \angle -30^\circ$

The Secondary Voltage Relationship

$V_{s1} = \sqrt{3} V_{s2} \angle 30^\circ$

$V_{s2} = \frac{V_{s1}}{\sqrt{3}} \angle -30^\circ$

The Turns Ratio of the Transformer

$\frac{V_{p1}}{V_{s1}} = \frac{V_{p2}}{V_{s2}} = \frac{I_{s1}}{I_{p1}} = \frac{I_{s2}}{I_{p2}}$

The Per Phase Equivalent



The Per Unit Equivalent



$\frac{V_{p1}}{V_{s1}} = \frac{V_{p2}}{V_{s2}} = \frac{I_{s1}}{I_{p1}} = \frac{I_{s2}}{I_{p2}}$

Delta - Delta ($\Delta-\Delta$)



The Turns Ratio of the Transformer

$\frac{V_{p1}}{V_{s1}} = \frac{V_{p2}}{V_{s2}} = \frac{I_{s1}}{I_{p1}} = \frac{I_{s2}}{I_{p2}}$

The Per Phase Equivalent



$V_{p1} = \frac{V_{p2}}{\sqrt{3}} \angle -30^\circ$

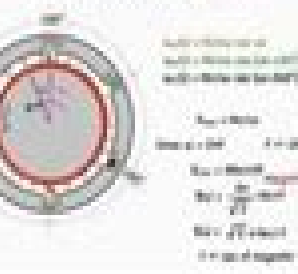
$V_{p2} = \frac{V_{p1}}{\sqrt{3}} \angle 30^\circ$

The Per Unit Equivalent



$\frac{V_{p1}}{V_{s1}} = \frac{V_{p2}}{V_{s2}} = \frac{I_{s1}}{I_{p1}} = \frac{I_{s2}}{I_{p2}}$

Three-Phase Induced Voltage (EMF)



The Equivalent Circuit of a Synchronous Generator



Basic Electrical Notes

Rachel Sandford



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Table of Contents Basic Electrical Notes

1. Understanding the eBook Basic Electrical Notes
 - The Rise of Digital Reading Basic Electrical Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electrical Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Electrical Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electrical Notes
 - Personalized Recommendations
 - Basic Electrical Notes User Reviews and Ratings
 - Basic Electrical Notes and Bestseller Lists
5. Accessing Basic Electrical Notes Free and Paid eBooks
 - Basic Electrical Notes Public Domain eBooks
 - Basic Electrical Notes eBook Subscription Services
 - Basic Electrical Notes Budget-Friendly Options

6. Navigating Basic Electrical Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Electrical Notes Compatibility with Devices
 - Basic Electrical Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Electrical Notes
 - Highlighting and Note-Taking Basic Electrical Notes
 - Interactive Elements Basic Electrical Notes
8. Staying Engaged with Basic Electrical Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Electrical Notes
9. Balancing eBooks and Physical Books Basic Electrical Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Electrical Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Electrical Notes
 - Setting Reading Goals Basic Electrical Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Electrical Notes
 - Fact-Checking eBook Content of Basic Electrical Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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